

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. – SEMESTER - V • EXAMINATION – WINTER -2019

Subject Code: BP502TP

Date: 18/11/2019

Subject Name: Pharmacology - II

Time: 02:30PM TO 05:30PM

Total Marks: 80

Instructions:

1. Question no. 1 is compulsory.
2. Attempt any four questions from question no. 2 to 7.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1 Each sub questions carry one mark. Answers are to be given in one line 16**
- (i) Which enzyme is inhibited by Enalapril to give its anti-hypertensive action?
 - (ii) Give the name of anticoagulant substance which is naturally found in liver.
 - (iii) Which enzyme is inhibited by Acetazolamide to give its diuretic action?
 - (iv) Which enzyme is inhibited by Celecoxib to give its analgesic action?
 - (v) Which substance's synthesis is inhibited by Allopurinol to give its anti-gout action?
 - (vi) Methimazole is an example of which category of drug?
 - (viii) Which enzyme is inhibited by Digoxin to give its cardiotonic action?
 - (viii) Give the name of drug used in hypertension which is α_2 adrenoceptor agonist.
 - (ix) Urokinase is an example of which category of drug?
 - (x) Which receptor is inhibited by Diphenhydramine?
 - (xi) Pioglitazone is potent agonist for which receptor?
 - (xii) Give the name of drug which is used in migraine as 5-HT_{1D} receptor agonists.
 - (xiii) Give the name of natural mineralocorticoids.
 - (xiv) Which enzyme is inhibited by Simvastatin to give anti-hyperlipidemic action?
 - (xv) Ticlopidine comes under which category of drug?
 - (xvi) Which receptor is inhibited by Montelukast?
- Q.2 (a) Give the mechanism of action, adverse effects and therapeutic uses of Simvastatin. 06**
- (b) Give the pharmacological actions of digoxin. 05**
- (c) Classify the anti-hypertensive agents. 05**
- Q.3 (a) Give the mechanism of action, adverse effects and therapeutic uses of Amiodarone. 06**
- (b) Give the therapeutic uses and adverse effect of Warfarin Sodium. 05**
- (c) Give the classification of diuretics according to potency and site of action. 05**

Q.4	(a)	Give the pharmacological actions of salicylates	06
	(b)	Write a short note on plasma volume expanders	05
	(c)	Give the adverse effect and therapeutic uses of H ₁ receptor antagonist	05
Q.5	(a)	Give the mechanism of action and therapeutic uses of Allopurinol.	06
	(b)	Write a short note on SERMs	05
	(c)	Classify the anti-thyroid drugs. Give the adverse effect of methylthiouracil.	05
Q. 6	(a)	Give the pharmacological actions of insulin.	06
	(b)	Give the principles and applications of bioassay.	05
	(c)	Give the mechanism of action and adverse effect of Nitrites.	05
Q.7	(a)	Give the mechanism of action and adverse effect of glucocorticoids.	06
	(b)	Give the therapeutic uses and adverse effects of oxytocin.	05
	(c)	Explain the mechanism of action and adverse effect of Sulfonylureas.	05
